X

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Assistant Commissioner For Patents, Washington, D.C. 20231 on 22 DECEMBER 1999

Customer Number: 000959

Attorney's Docket

Number GIN-029CP (formerly GI6069-74A)

JAN 0 3 2000 65

Declaration, Petition and Power of Attorney for Patent Application

below named inventor, I hereby declare that:

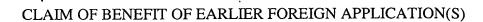
My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

### 

I do not know and do not believe that the subject matter of this application was known or used by others in the United States or patented or described in a printed publication in any country before my invention thereof, or patented or described in a printed publication in any country or in public use or on sale in the United States more than one year prior to the date of this application, or first patented or caused to be patented or made the subject of an inventor's certificate by me or my legal representatives or assigns in a country foreign to the United States prior to the date of this application on an application filed more than twelve months (six months if this application is for a design) before the filing of this application; and I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application, that no application for patent or inventor's certificate on the subject matter of this application has been filed by me or my representatives or assigns in any country foreign to the United States, except those identified below, and that I have reviewed and understand the contents of the specification, including the claims as amended by any amendment referred to herein.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.



I hereby claim priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below, and have also identified below any foreign application(s) for patent or inventor's certificate filed by me on the same subject matter having a filing date before that of the application(s) from which priority is claimed.

| Check | one:  |
|-------|-------|
|       | OIIV. |

- X no such applications have been filed.
- \_ such applications have been filed as follows

# EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

| Country | Application Number | Date of Filing   | Priority Claimed |
|---------|--------------------|------------------|------------------|
| -       |                    | (month,day,year) | Under 35 USC 119 |
|         |                    |                  | _Yes No_         |
|         |                    |                  | _Yes No_         |

| ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS 6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION |
|--|
| <br>O MOIVING I GREEBIGH) I RIGHT O TIME COLUMN I PROPERTION   |
|  |
|  |
|  |

### CLAIM FOR BENEFIT OF U.S. PROVISIONAL APPLICATION(S)

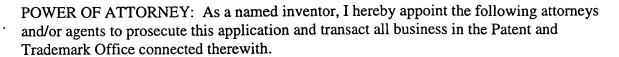
I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

| 60/084,564                             | May 7, 1998                    |
|--|--------------------------------|
| (Application Serial No.)               | (Filing Date)                  |
|  |                                |
| 60/087,645                             | June 2, 1998                   |
| (Application Serial No.)               | (Filing Date)                  |
| , 11                                   |                                |
| 60/093,712                             | July 22, 1998                  |
| (Application Serial No.)               | (Filing Date)                  |
|  |                                |
|  |                                |
| 60/094,935                             | July 31, 1998                  |
| 60/094,935<br>(Application Serial No.) | July 31, 1998<br>(Filing Date) |
|  |                                |
|  |                                |
| (Application Serial No.)               | (Filing Date)                  |
| (Application Serial No.) 60/095,880    | (Filing Date) August 10, 1998  |
| (Application Serial No.) 60/095,880    | (Filing Date) August 10, 1998  |



I hereby claim the benefit under Title 35, United States Code, §120 of any earlier United States application(s) or PCT international application(s) designating the United States listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the earlier application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date(s) of the earlier application(s) and the national or PCT international filing date of this application. As to subject matter of this application which is common to my earlier application(s), if any, described below, I do not know and do not believe that the same was known or used by others in the United States or patented or described in a printed publication in any country before my invention thereof, or patented or described in a printed publication in any country or in public use or on sale in the United States more than one year prior to the date(s) of said earlier application(s), or first patented or caused to be patented or made the subject of an inventor's certificate by me or my legal representatives or assigns in a country foreign to the United States prior to the date(s) of said earlier application(s) on an application filed more than twelve months (six months if this application is for a design) before the filing of said earlier application(s); and I acknowledge that no application for patent or inventor's certificate on said subject matter has been filed by me or my representatives or assigns in any country foreign to the United States except those identified herein.

| (Application Serial No.) | (Filing Date) | (Status)<br>(patented,pending,aband.) |
|--------------------------|---------------|---------------------------------------|
| (Application Serial No.) | (Filing Date) | (Status) (patented,pending,aband.)    |



| W. Hugo Liepmann       | Reg. No. 20,407 | Catherine J. Kara      | Reg. No. 41,106 |
|------------------------|-----------------|------------------------|-----------------|
| James E. Cockfield     | Reg. No. 19,162 | Faustino A. Lichauco   | Reg. No. 41,942 |
| Thomas V. Smurzynski   | Reg. No. 24,798 | Jeanne M. DiGiorgio    | Reg. No. 41,710 |
| Ralph A. Loren         | Reg. No. 29,325 | Megan E. Williams      | Reg. No. 43,270 |
| Giulio A. DeConti, Jr. | Reg. No. 31,503 | Nicholas P. Triano III | Reg. No. 36,397 |
| Ann Lamport Hammitte   | Reg. No. 34,858 | Peter C. Lauro         | Reg. No. 32,360 |
| Elizabeth A. Hanley    | Reg. No. 33,505 | Reza Mollaaghababa     | Reg. No. 43,810 |
| Amy E. Mandragouras    | Reg. No. 36,207 | Timothy J. Douros      | Reg. No. 41,716 |
| John V. Bianco         | Reg. No. 36,748 | John L. Welch          | Reg. No. 28,129 |
| Anthony A. Laurentano  | Reg. No. 38,220 | DeAnn F. Smith         | Reg. No. 36,683 |
| Jane E. Remillard      | Reg. No. 38,872 | William D. DeVaul      | Reg. No. 42,483 |
| Jeremiah Lynch         | Reg. No. 17,425 | David J. Rikkers       | Reg. No. 43,882 |
| Kevin J. Canning       | Reg. No. 35,470 |                        |                 |
| David A. Lane, Jr.     | Reg. No. 39,261 |                        |                 |

## of LAHIVE & COCKFIELD, LLP, 28 State Street, Boston, Massachusetts 02109, United States of America, and

| Scott A. Brown   | Reg. No. 32,724 | Suzanne A. Sprunger, Ph.D. | Reg. No. 41,323 |
|------------------|-----------------|----------------------------|-----------------|
| Bruce M. Eisen   | Reg. No. 22,847 | Barbara A. Gyure           | Reg. No. 34,614 |
| Ellen J. Kapinos | Reg. No. 32,245 |                            |                 |

of GENETICS INSTITUTE, INC., 87 CambridgePark Drive, Cambridge, Massachusetts 02140, United States of America.

Send Correspondence to <u>Amy E. Mandragouras</u> at **Customer Number: 000959** whose address is:

#### Lahive & Cockfield, LLP, 28 State Street, Boston, MA 02109

Direct Telephone Calls to: (name and telephone number)

#### Amy E. Mandragouras, (617) 227-7400

Wherefore I petition that letters patent be granted to me for the invention or discovery described and claimed in the attached specification and claims, and hereby subscribe my name to said specification and claims and to the foregoing declaration, power of attorney, and this petition.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| Full name of sole or first inventor              |                 |  |
|--|-----------------|--|
| Kenneth Jacobs                                   |                 |  |
| Inventor's signature for Sexneth for Se          | Date<br>9/10/99 |  |
| Residence  | / /             |  |
| 151 Beaumont Avenue, Newton, Massachusetts 02160 |                 |  |
| Citizenship                                      |                 |  |
| U.S.A.   |                 |  |
| Post Office Address (if different)               |                 |  |

| Full name of third inventor, if any            |  |
|--|--|
| Edward R. LaVallie                             |  |
| Inventor's signature Abolli                    | Date / / / / / / / / / / / / / / / / / / / |
| award K. Favally                               | 9/10/97                                    |
| Residence                                      | ,  |
| 113 Ann Lee Road, Harvard, Massachusetts 01451 |  |
| Citizenship                                    |  |
| U.S.A.   |  |
| Post Office Address (if different)             |  |
|  |  |

| Full name of fourth inventor, if any          |            |
|---|------------|
| Lisa A. Collins-Racie                         |            |
| Inventor's signature                          | Date 1 100 |
| Lesa A- Callers-Race                          | 9/12/99    |
| Residence                                     |            |
| 124 School Street, Acton, Massachusetts 01720 |            |
| Citizenship                                   |            |
| U.S.A.  |            |
| Post Office Address (if different)            |            |

| Full name of second inventor, if any John M. McCoy       |              |
|--|--------------|
| Inventor's signature                                     | Date 9/14/49 |
| Residence 56 Howard Street, Reading, Massachusetts 01867 | 1            |
| Citizenship  |              |
| Great Britain  |              |
| Post Office Address (if different)                       |              |

| Full name of fifth inventor, if any         |                   |
|---|-------------------|
| David Merberg                               |                   |
| Inventor's signature David Melbera          | Date Oct 20, 1999 |
| Residence                                   |                   |
| 2 Orchard Drive, Acton, Massachusetts 01720 |                   |
| Citizenship                                 |                   |
| U.S.A.                                      |                   |
| Post Office Address (if different)          |                   |

| Full name of eighth inventor, if any             |                         |
|--|-------------------------|
| Michael J. Agostino                              |                         |
| Inventor's signature                             | Date $Q/\sqrt{2}/e_{1}$ |
| /// Whent was                                    | 7/17/99                 |
| Residence  |                         |
| 26 Walcott Avenue, Andover, Massachusetts 01810  |                         |
| Citizenship                                      |                         |
| U.S.A.   |                         |
| Post Office Address (if different)               |                         |
|  |                         |
|  |                         |
|  |                         |
| Full name of ninth inventor, if any              |                         |
| Robert J. Steininger, II                         |                         |
| Inventor's signature                             | Date                    |
| Dunn =   | 250 व 9 9               |
| Residence  |                         |
| 100 Reed Street, Cambridge, Massachusetts 02140  |                         |
| Citizenship                                      |                         |
| U.S.A.   |                         |
| Post Office Address (if different)               |                         |
| 1 ost office Address (if different)              |                         |
|  |                         |
|  |                         |
| Full name of tenth inventor, if any              |                         |
| Michael R. Bowman                                | ·                       |
| Inventor's signature                             | Date / /                |
|  | 9/12/19                 |
| Residence  |                         |
| 50 Aldrich Road, Canton, Massachusetts 02021     |                         |
|  |                         |
| Citizenship                                      |                         |
| U.S.A.   |                         |
| Post Office Address (if different)               |                         |
|  |                         |
|  |                         |
| Full name of alayanth invantor if any            |                         |
| Full name of eleventh inventor, if any           |                         |
| Elizabeth DiBlasio-Smith                         | (Date                   |
| Inventor's signature                             | 9 12 99                 |
| Elizabeth Distas Smith                           | 1011.                   |
| Residende  | 1 '                     |
| 17 Chestnut Road, Tyngsboro, Massachusetts 01879 |                         |
| Citizenship                                      |                         |
| U.S.A.   |                         |
| Post Office Address (if different)               |                         |
|  |                         |

| Full name of twelfth inventor, if any        |         |
|--|---------|
| Angela Widom                                 |         |
| Inventor's signature,                        | Date    |
| Aboeladuidad                                 | 9/13/99 |
| Residence                                    |         |
| 19 Cherokee Road, Acton, Massachusetts 01720 |         |
| Citizenship                                  |         |
| U.S.A.                                       |         |
| Post Office Address (if different)           |         |
|  |         |

| Full name of sixth inventor, if any                  |      |          |
|--|------|----------|
| Cheryl Evans   |      |          |
| Inventor's signature                                 | Date | 10/22/99 |
| Residence  |      | 1        |
| 18801 Bent Willow Circle, Germantown, Maryland 20874 |      |          |
| Citizenship  |      |          |
| U.K  |      |          |
| Post Office Address (if different)                   |      |          |
|  |      |          |

| Full name of seventh inventor, if any |             |
|---------------------------------------|-------------|
| Maurice Treacy                        | <del></del> |
| Inventor's signature                  | Date DDAG   |
| Residence                             |             |
| 12 Foxrock Court, Dublin 18, Ireland  |             |
| Citizenship                           |             |
| Ireland                               |             |
| Post Office Address (if different)    |             |
| ·                                     |             |